

- ANALYSE OF RECORDING FILE PARAMETERS &
 CAMERA SPECIFICITES ON ARRI AND SONY CAMERAS
- RED CINEMA CAMERA LINEUP (selection of files of the RED website)

ATHENS

Tuesday 28 November to Saturday 1 December 2018

V1 Friday December 1st 2018 – Philippe Ros

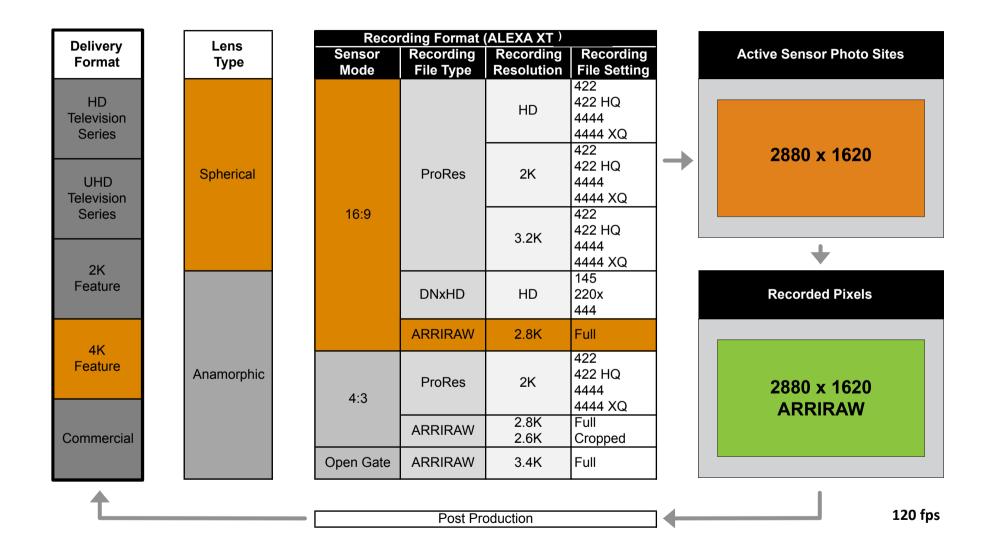
Some tips

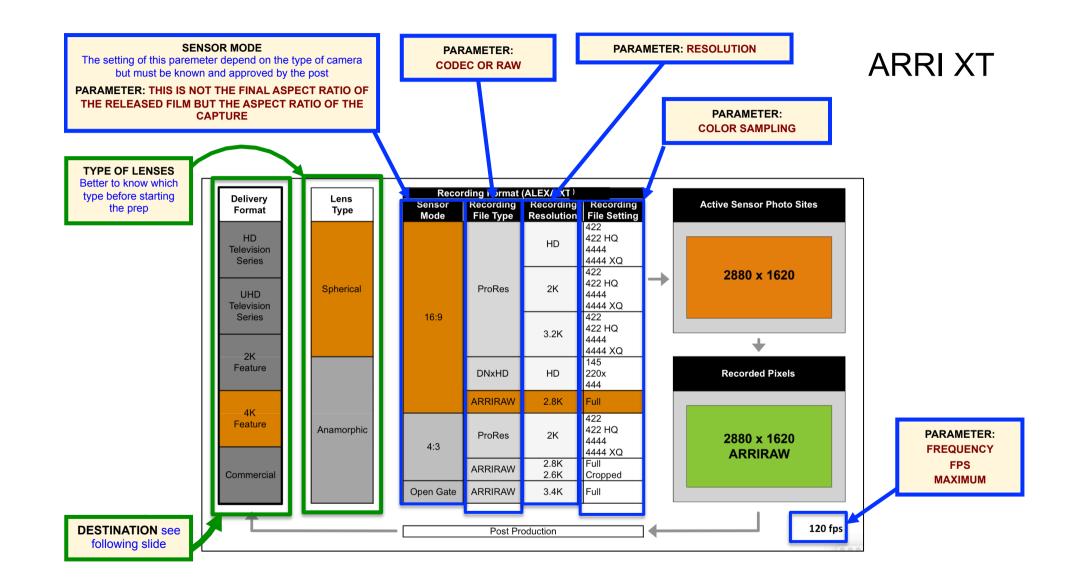
During preparation, regarding the camera and the workflow, we do recommand to choose as soon as possible the type of lenses: anamorphic or spherical. It will lead to choose the camera, to deal with some constraints (sensor mode, media, speed) and some further choices in post.



ARRI RECORDING FILE PARAMETERS AND CAMERA SPECIFICITES

_____FOLLOWING SLIDE FROM ARRI WEBSITE _____ SOME TIPS TO READ





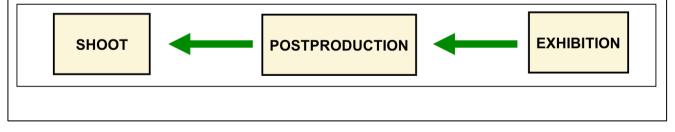
ARRI XT



In the ARRI diagram, the delivery format is at the first place.

The questions of camera and workflow choice are often answered in the program production chronological order:

We prefer answering questions in the opposite order



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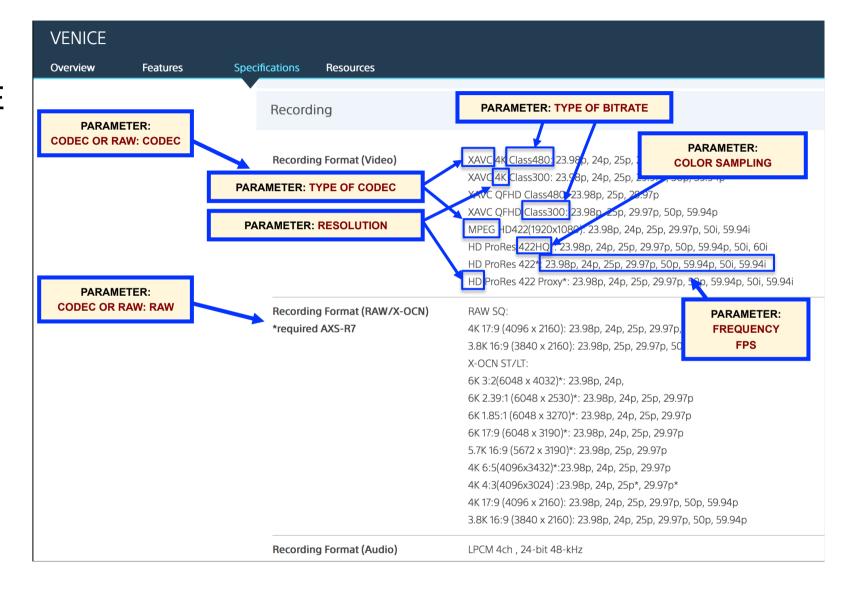


SONY RECORDING FILE PARAMETERS AND CAMERA SPECIFICITES OF THE VENICE

SONY VENICE

VENICE				
Overview	Features	Specifications Re	sources	
		Recording	Recording	
		Recording For	rmat (Video)	XAVC 4K Class480: 23.98p, 24p, 25p, 29.97p
				XAVC 4K Class300: 23.98p, 24p, 25p, 29.97p, 50p, 59.94p
				XAVC QFHD Class480: 23.98p, 25p, 29.97p
				XAVC QFHD Class300: 23.98p, 25p, 29.97p, 50p, 59.94p
				MPEG HD422(1920x1080): 23.98p, 24p, 25p, 29.97p, 50i, 59.94i
				HD ProRes 422HQ*: 23.98p, 24p, 25p, 29.97p, 50p, 59.94p, 50i, 60i
				HD ProRes 422*: 23.98p, 24p, 25p, 29.97p, 50p, 59.94p, 50i, 59.94i
				HD ProRes 422 Proxy*: 23.98p, 24p, 25p, 29.97p, 50p, 59.94p, 50i, 59.94i
		Recording For	rmat (RAW/X-OCN)	RAW SQ:
		*required AXS	5-R7	4K 17:9 (4096 x 2160): 23.98p, 24p, 25p, 29.97p, 50p, 59.94p
				3.8K 16:9 (3840 x 2160): 23.98p, 25p, 29.97p, 50p, 59.94p
				X-OCN ST/LT:
				6K 3:2(6048 x 4032)*: 23.98p, 24p,
				6K 2.39:1 (6048 x 2530)*: 23.98p, 24p, 25p, 29.97p
				6K 1.85:1 (6048 x 3270)*: 23.98p, 24p, 25p, 29.97p
				6K 17:9 (6048 x 3190)*: 23.98p, 24p, 25p, 29.97p
				5.7K 16:9 (5672 x 3190)*: 23.98p, 25p, 29.97p
				4K 6:5(4096x3432)*:23.98p, 24p, 25p, 29.97p
				4K 4:3(4096x3024) :23.98p, 24p, 25p*, 29.97p*
				4K 17:9 (4096 x 2160): 23.98p, 24p, 25p, 29.97p, 50p, 59.94p
				3.8K 16:9 (3840 x 2160): 23.98p, 24p, 25p, 29.97p, 50p, 59.94p
		Recording For	rmat (Audio)	LPCM 4ch , 24-bit 48-kHz

SONY VENICE



- RED CAMERAS LINEUP

https://www.cinema5d.com/red-red-camera-line-explained-confusion-obsolete/



RED Cinema Camera Lineup.

https://www.cinema5d.com/red-red-camera-line-explained-confusion-obsolete/

THE BODY - RED DSMC2

The current RED body you can buy is called the RED DSMC2. The same as ARRI have the Alexa Mini, and Canon have the C300 – REDs camera is called the DSMC2.

Nearly all the features of the camera across the board are now the same, all shoot a minimum of 5K, can shoot ProRes simultaneously to R3D raw, all compatible with REDs current DSMC2 accessories.

We are keeping things simple here and won't go in to full specs. For that <u>go here</u>. After selecting your RED DSMC2 camera, you then have a choice of/

3 sensors – Monstro, Helium or Gemini.





SENSOR 1

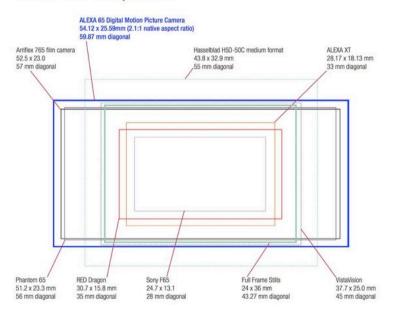
MONSTRO (THE FULL FRAME ONE)

The Monstro sensor offers 8K resolution in VistaVision format (VV) up to 60fps. VistaVision is circa Full Frame 35mm territory (sensor chart here). So think of this as the full frame version. This is the largest RED sensor on offer

The RED DSMC2 MONSTRO 8K VV.



Sensor Size Comparisons



SENSOR 2

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HELIUM (THE SUPER35 ONE)

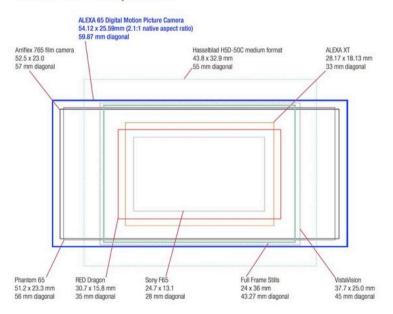
The Helium also offers 8K resolution up to 60fps, but this time in Super35mm format – a more industry standard sensor format.

If the Helium is the Alexa, the Monstro is the Alexa LF.

THE RED DSMC2 HELIUM 8K S35.



Sensor Size Comparisons



SENSOR 3

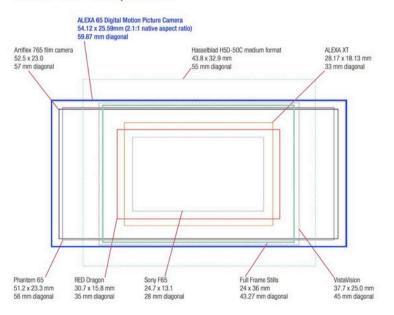
GEMINI 5K (THE LOWLIGHT ONE)

The Gemini is REDs latest sensor announcement, it has a dual sensitivity modes for darker environments. You trade off for better low-light for resolution. The Gemini shoots super35mm images in 5K up to 96fps.

THE RED DSMC2 GEMINI 5K S35.



Sensor Size Comparisons



DSMC2 BRAIN

The camera BRAIN is the primary building block of the RED system, housing the image sensor and advanced computing components. A DSMC2 [®] BRAIN is capable of data write speeds of 300 MB/s, can simultaneously record in REDCODE RAW and Apple ProRes or Avid DNxHR/HD, and is offered with three sensor options - delivering incredible dynamic range and up to 8K resolution. With features like cable-free peripherals, integrated media bay, wireless control, DSMC2 is the most powerful and intuitive camera to date. It is also compatible with a growing arsenal of modules and accessories—from RED and other Third-Party manufacturers. Tack on interchangeable OLPFs and lens mounts and DSMC2 gives you the ultimate control over your footage.

CHOOSE YOUR SENSOR:



MONSTRO 8K VV

35.4 Megapixel CMOS Sensor 40.96 mm x 21.60 mm (Diag: 46.31 mm) 60 fps at 8K Full Format (8192 × 4320) 75 fps at 8K 2.4:1 (8192 × 3456)

\$54,500



HELIUM 8K S35 35.4 Megapixel CMOS Sensor 29.90 mm x 15.77 mm (Diag: 33.80 mm) 60 fps at 8K Full Format (8192 × 4320) 75 fps at 8K 2.4:1 (8192 × 3456)

\$24,500



GEMINI 5K S35

 15.4 Megapixel Dual Sensitivity CMOS Sensor

 30.72 mm x 18 mm (Diagonal: 35.61 mm)

 96 fps at 5K Full Format (5120 × 2700)

 75 fps at 5K Full Height 1.7:1 (5120 × 3000)

\$19,500

THE OLDER MODELS

At the time of writing, RED only sells the DSMC2, the Scarlet-W and Raven. All other RED cameras are considered legacy cameras.

It's easy to spot a legacy camera, if it doesn't have the below Pogo mount (cable-less connection), it is an older legacy RED camera body.



This is where the terms EPIC, Dragon, Mysterium will get thrown about. There's a little bit of a cross over (i.e Scarlet-W has a Dragon sensor). But ultimately all terms outside of the DMSC2 body, 3 sensors & 2 lower cameras are being binned.



KEY TO LEGACY NAMING:

Weapon – Rebranded with the DSMC2 update Epic-W – Rebranded with the DSMC2 update Epic – Legacy camera body Dragon – Legacy name for a sensor format Mysterium – Legacy name for a sensor format RED One – Legacy camera body

THE OLDER MODELS

There are still specialist variants you can get of the RED DSMC2 with each sensor.

Some of these include – Monochrome (black and white), Carbon Fibre (physically lighter) and Xenomorph (A David Fincher special).

